

**LAW OFFICES  
STAAS & HALSEY LLP**

Telephone  
(202) 434-1500

1201 New York Avenue, N.W.  
Suite 700  
Washington, D.C. 20005

Facsimile  
(202) 434-1501

**FACSIMILE TRANSMISSION**

**May 11, 2005**

**TO : UNITED STATES PATENT AND TRADEMARK OFFICE**

**ATTN: Tongoc Tran, Group Art Unit: 2134**

**FAX NO.: 571-273-3843**

**TELEPHONE: 571-272-3843**

**FROM: J. Randall Beckers**

**Serial No: 09/583,882**

**OUR DOCKET: 1460.1006**

**NO. OF PAGES (Including this Cover Sheet) 3.**

**PRIVILEGED & CONFIDENTIAL**

The information contained in this communication is confidential, may be attorney-client privileged, and is intended only for the use of the addressee(s). Unauthorized use, disclosure or copying is strictly prohibited. If there are any problems with this transmission, please contact us immediately.

**COMMENTS:**

Serial No. 09/583,882

**ABSTRACT OF THE DISCLOSURE (marked-up)**

~~In a~~A cryptographic method and equipment ~~and a decrypting method and~~  
~~equipment according to the invention, a cryptographic key~~ the by generating an auxiliary  
~~code depending upon~~based on a randomly determined numeric key and including the  
~~result of encryption is included together with the~~ a result of encryption into a cryptogram.  
~~On~~Upon ~~decrypting~~ decryption, ~~a~~ the cryptographic key is restored by using the numeric  
key restored according to the entire cryptogram ~~and is utilized in the decryption~~. On the  
other hand, ~~in another~~ A cryptographic method and equipment ~~and another decrypting~~  
~~method and equipment according to the invention, scrambles and encrypts~~ on encrypting,  
physical characteristic information ~~is scrambled and then encrypted~~. ~~On this encryption,~~  
~~on the contrary, and descrambles, the~~ a result of a decryption ~~is descrambled, thereby~~. In  
~~these cryptographic method and equipment, together with decryption method and~~  
~~equipment,~~enabling any small alteration made ~~onto~~ the a cryptogram to be detected  
because even a minor alteration thereto causes a serious damage~~changes~~ on the result of  
the decryption. ~~So, by applying these techniques to sending and receiving the physical~~  
~~characteristic information, their safety can be improved~~. On the other hand, ~~in a~~A remote  
identification system ~~according to the invention, by encrypting~~ encrypts the physical  
characteristic information ~~by using a password as a cryptographic key, because of the~~ and  
fluctuation of the physical characteristic information, authenticating information represented  
as a different bit pattern at each identifying processing ~~can be~~ is generated and sent to a  
transmission medium. ~~So, by examining the equivalence between the result of decryption~~  
~~of the authenticating information and the registered reference information while considering~~  
~~the aforementioned fluctuation, the person can be reliably identified~~.

Serial No. 09/583,882

**ABSTRACT OF THE DISCLOSURE**

A cryptographic method and equipment decrypting a cryptographic key by generating an auxiliary code based on a randomly determined numeric key and including a result of encryption into a cryptogram. Upon decryption, the cryptographic key is restored using the numeric key restored according to the entire cryptogram. A cryptographic method and equipment scrambles and encrypts physical characteristic information, and descrambles a result of a decryption, thereby enabling any alteration to a cryptogram to be detected because even a minor alteration thereto changes the result of the decryption. A remote identification system encrypts physical characteristic information using a password as a cryptographic key, and fluctuation of the physical characteristic information, authenticating information represented as a different bit pattern at each identifying processing is generated and sent to a transmission medium.